

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Rajagopal Bakthavatchalam et al.

Application No.: 10/591,568

Confirmation No.: 6247

Filed: September 1, 2006

Art Unit: 1614

For: ARALKYLAMINO-SUBSTITUTED
QUINAZOLINE ANALOGUES

Examiner: Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT (IDS)

MS PCT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits as far as is known to the undersigned (37 CFR 1.97(b)(3)).

In accordance with 37 CFR 1.98(a)(2)(ii), Applicant has not submitted copies of U.S. patents and U.S. patent applications. Applicant submits herewith copies of foreign patents and non-patent literature in accordance with 37 CFR 1.98(a)(2).

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be

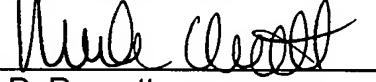
an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 04-1105, under Order No. 61386(72021).

Dated: July 9, 2007

Respectfully submitted,

By 
Mark D. Russett
Registration No.: 41,281
EDWARDS ANGELL PALMER & DODGE
LLP
P.O. Box 55874
Boston, Massachusetts 02205
(617) 239-0100
Attorneys/Agents For Applicant

Substitute for form 1449A/B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 1 Attorney Docket Number 61386(72021)

Complete If Known

| | |
|----------------------|---------------------------|
| Application Number | 10/591,568 |
| Filing Date | September 1, 2006 |
| First Named Inventor | Rajagopal Bakthavatchalam |
| Art Unit | 1614 |
| Examiner Name | Not Yet Assigned |

| U.S. PATENT DOCUMENTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|-----------------------|------------------------|--------------------------------|--|---|--|--------------------------------|--|---|------------------------|--|--|----|-----------------|------------|------------------------|--|--|----|-----------------|------------|------------------------|--|--|----|-----------------|------------|------------------------|--|--|----|-----------------|------------|------------------------|--|--|----|-----------|------------|----------------|--|--|----|-----------|------------|------------|--|--|----|-----------|------------|-----------------|--|--|----|-----------|------------|-----------------|--|--|----|-----------|------------|------------------|--|--|----|-----------|------------|-----------------|--|--|----|-----------|------------|----------------|--|--|----|--------------------|------------|------------------------|--|--|----|-----------------|------------|------------|--|--|
| <table border="1"> <thead> <tr> <th rowspan="2">Examiner Initials*</th> <th rowspan="2">Cite No.¹</th> <th>Document Number</th> <th rowspan="2">Publication Date MM-DD-YYYY</th> <th rowspan="2">Name of Patentee or Applicant of Cited Document</th> <th rowspan="2">Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear</th> </tr> <tr> <th>Number-Kind Code² (if known)</th> </tr> </thead> <tbody> <tr> <td>AA</td> <td>US 2004/0106616</td> <td>06/03/2004</td> <td>Bakthavatchalam et al.</td> <td></td> <td></td> </tr> <tr> <td>AB</td> <td>US 2004/0156869</td> <td>08/12/2004</td> <td>Bakthavatchalam et al.</td> <td></td> <td></td> </tr> <tr> <td>AC</td> <td>US 2005/0215575</td> <td>09/29/2005</td> <td>Bakthavatchalam et al.</td> <td></td> <td></td> </tr> <tr> <td>AD</td> <td>US 2005/0070547</td> <td>03/31/2005</td> <td>Bakthavatchalam et al.</td> <td></td> <td></td> </tr> <tr> <td>AE</td> <td>US 2007/0105865</td> <td>05/10/2007</td> <td>Bakthavatchalam et al.</td> <td></td> <td></td> </tr> <tr> <td>AF</td> <td>5,034,393</td> <td>07/23/1991</td> <td>Hackler et al.</td> <td></td> <td></td> </tr> <tr> <td>AG</td> <td>5,436,233</td> <td>07/25/1995</td> <td>Lee et al.</td> <td></td> <td></td> </tr> <tr> <td>AH</td> <td>5,326,766</td> <td>07/05/1994</td> <td>Dreikorn et al.</td> <td></td> <td></td> </tr> <tr> <td>AI</td> <td>5,112,817</td> <td>05/12/1992</td> <td>Fukazawa et al.</td> <td></td> <td></td> </tr> <tr> <td>AJ</td> <td>4,694,000</td> <td>09/15/1987</td> <td>Timmerman et al.</td> <td></td> <td></td> </tr> <tr> <td>AK</td> <td>4,352,928</td> <td>10/05/1982</td> <td>Hiranuma et al.</td> <td></td> <td></td> </tr> <tr> <td>AL</td> <td>3,971,783</td> <td>07/27/1976</td> <td>Barnish et al.</td> <td></td> <td></td> </tr> <tr> <td>AM</td> <td>US-2006-0089354-A1</td> <td>04/27/2006</td> <td>Bakthavatchalam et al.</td> <td></td> <td></td> </tr> <tr> <td>AN</td> <td>US-2003/0191312</td> <td>10/09/2003</td> <td>Sheng Ding</td> <td></td> <td></td> </tr> </tbody> </table> | Examiner Initials* | Cite No. ¹ | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | Number-Kind Code ² (if known) | AA | US 2004/0106616 | 06/03/2004 | Bakthavatchalam et al. | | | AB | US 2004/0156869 | 08/12/2004 | Bakthavatchalam et al. | | | AC | US 2005/0215575 | 09/29/2005 | Bakthavatchalam et al. | | | AD | US 2005/0070547 | 03/31/2005 | Bakthavatchalam et al. | | | AE | US 2007/0105865 | 05/10/2007 | Bakthavatchalam et al. | | | AF | 5,034,393 | 07/23/1991 | Hackler et al. | | | AG | 5,436,233 | 07/25/1995 | Lee et al. | | | AH | 5,326,766 | 07/05/1994 | Dreikorn et al. | | | AI | 5,112,817 | 05/12/1992 | Fukazawa et al. | | | AJ | 4,694,000 | 09/15/1987 | Timmerman et al. | | | AK | 4,352,928 | 10/05/1982 | Hiranuma et al. | | | AL | 3,971,783 | 07/27/1976 | Barnish et al. | | | AM | US-2006-0089354-A1 | 04/27/2006 | Bakthavatchalam et al. | | | AN | US-2003/0191312 | 10/09/2003 | Sheng Ding | | |
| Examiner Initials* | | | Cite No. ¹ | | | | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Number-Kind Code ² (if known) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AA | US 2004/0106616 | 06/03/2004 | Bakthavatchalam et al. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AB | US 2004/0156869 | 08/12/2004 | Bakthavatchalam et al. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AC | US 2005/0215575 | 09/29/2005 | Bakthavatchalam et al. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AD | US 2005/0070547 | 03/31/2005 | Bakthavatchalam et al. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AE | US 2007/0105865 | 05/10/2007 | Bakthavatchalam et al. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AF | 5,034,393 | 07/23/1991 | Hackler et al. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AG | 5,436,233 | 07/25/1995 | Lee et al. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AH | 5,326,766 | 07/05/1994 | Dreikorn et al. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AI | 5,112,817 | 05/12/1992 | Fukazawa et al. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AJ | 4,694,000 | 09/15/1987 | Timmerman et al. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AK | 4,352,928 | 10/05/1982 | Hiranuma et al. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AL | 3,971,783 | 07/27/1976 | Barnish et al. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AM | US-2006-0089354-A1 | 04/27/2006 | Bakthavatchalam et al. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AN | US-2003/0191312 | 10/09/2003 | Sheng Ding | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| FOREIGN PATENT DOCUMENTS | | | | | |
|--------------------------|-----------------------|---|--------------------------------|--|---|
| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | Country Code ³ -Number ⁴ -Kind Code ⁵ (if known) | | | |
| | | | | | T ⁶ |

| NON PATENT LITERATURE DOCUMENTS | | | | | |
|---------------------------------|---|---|--|--|----------------|
| Examiner Initials | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | | | |
| CA | JOHANSEN, M.E. et al., "TRPV1 Antagonists Elevate Cell Surface Populations of Receptor Protein and Exacerbate TRPV1-Mediated Toxicities in Human Lung Epithelial Cells", <i>Toxicological Sciences</i> 89(1), 278-286 (2006) (Advance Access publication August 24, 2005) | | | | T ² |
| CB | THOMAS, Karen C. et al., "Transient Receptor Potential Vanilloid 1 Agonists Cause Endoplasmic Reticulum Stress and Cell Death in Human Lung Cells," <i>The Journal of Pharmacology and Experimental Therapeutics</i> 321(3), 830-838 (2007). | | | | |
| CC | BOLCSKEI, Kata et al., "Investigation of the role of TRPV1 receptors in acute and chronic nociceptive processes using gene-deficient mice," <i>Pain</i> 117, 368-376 (2005). | | | | |
| CD | HELYES, Zsuzsanna et al., "Role of transient receptor potential vanilloid 1 receptors in endotoxin-induced airway inflammation in the mouse," <i>Am J Physiol Lung Cell Mol Physiol</i> , 292(5):L1173-81 (2007). | | | | |
| CE | BANVOLGYI, Agnes et al., "Evidence for a novel protective role of the vanilloid TRPV1 receptor in a cutaneous contact allergic dermatitis model," <i>J Neuroimmunol</i> . 169, 86-96 (2005). | | | | |
| CF | International Search Report for PCT/US2005/06697 (4 pages) | | | | |
| CG | International Preliminary Report on Patentability for PCT/US2005/06697 (6 pages) | | | | |
| CH | MAKI, Yoshifumi et al., "N ⁷ - Alkylation and Ring-Transformation of N ⁶ - Acyl-9-Substituted Adenines," <i>Heterocycles</i> (p.895-898). (1981) | | | | |
| CI | Temple, Carroll Jr. et al., "Synthesis of Potential Antimalarial Agents. II. 6,8-Disubstituted Pyrido[2,3- <i>b</i>]pyrazines," (p.1216-1218). (1968) | | | | |
| CJ | Nishikawa, Kohei et al., "Structure-Activity Relationships of the Diuretic Activity of Triaza- and Tetraaza-Naphthalene Compounds," <i>Chemical & Pharmaceutical Bulletin</i> p. 2057-2077. (1976) | | | | |

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

| | | | |
|--------------------|--|-----------------|--|
| Examiner Signature | | Date Considered | |
|--------------------|--|-----------------|--|